

### REMARKS

The Examiner rejected Claims 37-48 under 35 U.S.C. § 103(a) as unpatentable over Takano *et al.* As a preliminary matter, Applicant notes the cancellation of claim 37, obviating the rejection, without prejudice toward presenting the claim in this or a related application.

Takano *et al.* disclose a circuit board having insulating layers with via holes. Copper is plated onto the insulating layers to form a copper layer and filling the via holes with copper. See col. 6, lines 26-31 and Figure 4.

Applicant's amended independent Claims 40 and 41 are each patentable by calling for a dielectric layer defining sidewalls of a well, and a terminal including a conductive layer on the sidewalls of the well and conductive material substantially filling the well.

Takano *et al.* fail to disclose or suggest a conductive layer on the sidewalls of a well along with conductive material substantially filling the well. Instead, Takano *et al.* is limited to the disclosure of filling a via with plated copper.

For at least this reason, Applicant respectfully submits that amended independent Claims 40 and 41 are patentable over Takano. Claims 38-39 and 49-50 depend from and include all limitations of independent Claim 40. Claims 42-48 and 51-55 depend from and include all limitations of independent Claim 41. The dependent claims are patentable over Takano at least because of their dependency on an allowable independent claim.

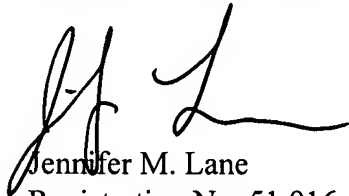
The dependent claims are further patentable over Takano because of the additional elements recited therein. For example, Claims 49 and 53 recite that the material in the sidewall layer is different than the material substantially filling the well. Claims 50 and 54 recite that the materials include nickel and solder paste, respectively. Takano is silent as to these features. Claims 51 and 55 recite a conductive member extending into the well forming an attached connection. Takano is silent as to this type of connection.

Applicant respectfully submits the claims are in condition for allowance. Prompt and favorable consideration of this Amendment and Response is respectfully requested. The

Examiner is invited to call the undersigned at (206) 903-8836 if personal communication would be helpful in this matter.

Respectfully submitted,

DORSEY & WHITNEY LLP

A handwritten signature in black ink, appearing to read 'J. Lane', is written over the printed name.

Jennifer M. Lane

Registration No. 51,916

Telephone No. (206) 903-8836

JML:pep

Enclosures:

Postcard

Check

Fee Transmittal Sheet (+ copy)

Request for Continued Examination (+ copy)

DORSEY & WHITNEY LLP  
1420 Fifth Avenue, Suite 3400  
Seattle, Washington 98101-4010  
(206) 903-8800 (telephone)  
(206) 903-8820 (fax)